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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/669,805	09/23/2003	Matthew J. Craighead	NVID-P000659	8167
WAGNER MI	7590 06/28/2007 JRABITO & HAO LLP	EXAMINER		
Third Floor Two North Market Street San Jose, CA 95113			SHIN, CHRISTOPHER B	
			ART UNIT	PAPER NUMBER
			2181	
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			06/28/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/669,805	CRAIGHEAD, MATTHEW J.				
Office Action Summary	Examiner	Art Unit				
	Christopher B. Shin	2181				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim 11 apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	ely filed the mailing date of this communication. (35 U.S.C. § 133).				
Status	•	•				
Responsive to communication(s) filed on 2a) ☐ This action is FINAL . 2b) ☑ This 3) ☐ Since this application is in condition for allowan closed in accordance with the practice under Expression is the practice of the condition of the closed in accordance with the practice.	action is non-final. ice except for formal matters, pro					
Disposition of Claims		·				
4) Claim(s) 1-43 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-43 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction in the original sheet of the original sheet of the original sheet or declaration is objected to by the Examiner or declaration	election requirement. epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119		•				
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No d in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te				

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DETAILED ACTION

Allowable Subject Matter

1. Claims 19-43 are allowable over the prior art of record.

Official Notice

2. Examiner would like to point that the USPAT Database/File contains, specifically in class 710 Subclass 22-28, teaches DMA technique that are well known in the art and the examiner relies on the well known common knowledge of the DMA technique. It appears, from the broad claimed invention, that the gist of the claimed invention relies on the utilization of non-pageable memory in combination with the DMA transfer. The examiner recommends the applicant to search DMA in the USPAT file, when there is doubt of the official notice. See also the examiner cited references teaches some of the well-known operations/techniques of DMA technique and the utilization of the DMA techniques in different environments.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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4. Claims 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Blackmore et al. (6,799,200).

- a. In column 1, lines 56 end, teaches the "DMA engine ... buffers in consideration are marked as non-pageable"; therefore, the claimed invention of claim 1 are anticipated by the teachings of the Blackmore reference.
- 2. Claims 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Macieoswicz (2005/0160191).
 - b. In [0384], [1120] & [1221] section teaches the combination of allocation of non-pageable memory for DMA operation; therefore, one skill in the art can anticipate the claimed invention from the teachings of the Macieoswicz reference.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 2-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over the well-known prior art (e.g., well known prior art teachings of DMA of the official notice)

 Macieoswicz (2005/01600191).
 - c. The teachings of the parent claim 1 are similarly applied.

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- d. As for dependent claims 2-7, 13 & 15-18, the claimed invention further adds limitations that are commonly practiced in the well known DMA technique (see also the Official Notice). In addition, the examiner believes that the limitations of claims 2-7 are considered common knowledge/technique in the art of DMA operation (I.e., the examiner does not believe the further limitations of claims 2-7 are allowable when the claim 1 is not).
- e. As for dependent claims 8-12 are directed to different environments for the DMA operation; however, one skilled in the art knows the motivation for adding of utilizing DMA technique in any data transfer environment for the well known motivation of efficient handling of data transfer.
- f. As can be seen for the above teachings, the Macieoswicz does not expressly disclose the details of the well known DMA techniques; however, such details are commonly practiced/well known details of DMA operations.

 Therefore, it would have been obvious at the time the invention was made to one having ordinary skill in the art to add the commonly known aspect of the DMA operation for the well known motivation of efficient handling of the data transfer & alleviate the burden of the main processor, as well known and motivated in the art, to the Macieoswicz system, for the reasons stated above.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher B. Shin whose telephone number is 571-272-4159. The examiner can normally be reached on 6:30-5:00 M,Tu,Th,F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Donald Sparks can be reached on 571-272-4201. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

CHRISTOPHER SHIN PRIMARY EXAMINER OF 2181

June 15, 2007 Cs